

Title (en)
ENGINE CONTROLLER OF HYDRAULIC SHOVEL

Title (de)
MOTORSTEUERUNG FÜR HYDRAULISCHEN SCHAUFELBAGGER

Title (fr)
DISPOSITIF DE COMMANDE DU MOTEUR D'UNE PELLE HYDRAULIQUE

Publication
EP 1947316 B1 20100127 (EN)

Application
EP 06822679 A 20061031

Priority
• JP 2006321750 W 20061031
• JP 2005318799 A 20051101
• JP 2006044427 A 20060221
• JP 2006293044 A 20061027

Abstract (en)
[origin: EP1947316A1] [PROBLEMS] To easily realize an improvement in fuel economy and a reduction in noise during the operation of a hydraulic shovel while securing traveling performance. [MEANS FOR SOLVING THE PROBLEMS] This hydraulic shovel (1) includes a selection means (28) for an engine (2) which is capable of arbitrarily selecting either of an isochronous control and a droop control, and a traveling detection means (4) for detecting the traveling state of a traveling device (20). The hydraulic shovel further includes a control means (3) for the engine (2) which selects the isochronous control when the traveling detection means (4) detects the traveling state to maintains the rotational speed of the engine during rated operation while an output is increased, and selects the droop control when the traveling detection means (4) does not detect the traveling state to set the rotational speed of the engine lower than that during the rated operation while the output is increased.

IPC 8 full level
F02D 29/04 (2006.01); **E02F 9/20** (2006.01); **F02D 29/00** (2006.01); **F02D 41/04** (2006.01)

CPC (source: EP KR US)
E02F 9/20 (2013.01 - EP KR US); **F02D 29/00** (2013.01 - KR); **F02D 29/04** (2013.01 - KR); **F02D 31/001** (2013.01 - EP US); **F02D 41/021** (2013.01 - EP US); **F02D 41/04** (2013.01 - KR)

Cited by
EP3153688A4; EP3043050A4; US10316494B2; US9909281B2; WO2015067568A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1947316 A1 20080723; **EP 1947316 A4 20090415**; **EP 1947316 B1 20100127**; CN 101300415 A 20081105; CN 101300415 B 20100804; DE 602006012084 D1 20100318; JP 2007255414 A 20071004; JP 4199276 B2 20081217; KR 101218476 B1 20130104; KR 20080091428 A 20081013; US 2009101107 A1 20090423; US 7908068 B2 20110315; WO 2007052658 A1 20070510

DOCDB simple family (application)
EP 06822679 A 20061031; CN 200680040649 A 20061031; DE 602006012084 T 20061031; JP 2006293044 A 20061027; JP 2006321750 W 20061031; KR 20087012518 A 20080526; US 9236106 A 20061031